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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,936	08/31/2001	Brigitte Bathe	32301WD205	8955
7:	590 01/28/2003			
SMITH, GAMBRELL & RUSSELL, LLP			EXAMINER	
SUITE 800 1850 M STREI	ET, N.W.	FRONDA, CHRISTIAN L		
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1652	IT
			DATE MAILED: 01/28/2003	17

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No. 09/942,936

Applicant(s)

Bathe et al.

Examiner

Christian L. Fronda

Art Unit 1652

	The MAILING DATE of this communication appears	on the cover shee	et with t	the correspondence address			
Period for Reply							
THE MA	PRTENED STATUTORY PERIOD FOR REPLY IS SET IAILING DATE OF THIS COMMUNICATION.						
<ul> <li>Extension mailing d</li> </ul>	- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.						
<ul> <li>If the period</li> <li>If NO period</li> <li>Failure to</li> <li>Any reply</li> </ul>	parties of this communication with the proof of the proof	and will expire SIX (6) Me the application to become	MONTHS from	om the mailing date of this communication. NED (35 U.S.C. § 1.33)			
Status							
1) 🗌 R	Responsive to communication(s) filed on			·			
		tion is non-final.					
С	Since this application is in condition for allowance eclosed in accordance with the practice under <i>Ex pa</i>	except for formal arte Quayle, 193!	l matter 5 C.D. 1	rs, prosecution as to the merits is 11; 453 O.G. 213.			
	on of Claims						
4) 💢 C	Claim(s) <u>1-31</u>			is/are pending in the application.			
<b>4</b> a)	a) Of the above, claim(s) <u>1-9 and 11-31</u>			is/are withdrawn from consideration.			
5)□ C	Claim(s)			is/are allowed.			
	Claim(s) <u>10</u>						
	Claim(s)						
	Claims						
	on Papers		•	·			
9)□ T	The specification is objected to by the Examiner.						
10)□ T	The drawing(s) filed on is/are	; a) 🗆 accepted	or b)□	objected to by the Examiner.			
	Applicant may not request that any objection to the di						
	The proposed drawing correction filed on						
	If approved, corrected drawings are required in reply t			•			
	The oath or declaration is objected to by the Exami						
Priority ur	nder 35 U.S.C. §§ 119 and 120						
	Acknowledgement is made of a claim for foreign pr	riority under 35 U	J.S.C. §	i 119(a)-(d) or (f).			
	All b) ☐ Some* c) ☐ None of:						
1.	${f f X}$ Certified copies of the priority documents have	e been received.					
2.	$\square$ Certified copies of the priority documents have	e been received i	in Appli	cation No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
	the attached detailed Office action for a list of the						
	14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)							
_		41 Thetapian Summ	-: 'DTO 4				
		_		13) Paper No(s)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)				pplication (PTO-152)			
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#### **DETAILED ACTION**

#### Election/Restriction

1. Applicants' election with traverse of Group II, claim 10, in Paper No. 12 is acknowledged. Applicants' position is that the inventions are closely related that they cannot properly be considered independent and distinct and that the claims can be searched without serious burden on the Examiner. This is not found persuasive. A search of all the inventions in the patent literature and the non-patent literature cannot be made without serious burden because the inventions require separate searches that have different limits, boundaries, scope, and subject matter. Because these inventions are distinct for the reasons of record and have acquired a separate status in the art as shown by their divergent subject matter and classification, restriction for examination purposes is proper.

The requirement is still deemed proper and is therefore made FINAL.

2. Claim 10 is under consideration in this Office Action.

## Claim Rejections - 35 U.S.C. § 101

- 3. 35 U.S.C. 101 reads as follows:
  - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 4. Claim 10 is rejected under 35 USC 101 because the claimed invention is directed to non-statutory subject matter.

Claims 10, as written, do not sufficiently distinguish over nucleic acids, proteins, cells or antibodies as they exist naturally because the claims do not particularly point out any non-naturally occurring differences between the claimed products and the naturally occurring products. In the absence of the hand of man, the naturally occurring products are considered non-statutory subject matter. See Diamond v. Chakrabarty, 447 U.S. 303, 206 USPQ 193 (1980). The claims should be amended to indicate the hand of the inventor, e.g., by reciting the phrase "a transformed/recombinant Coryneform bacterium comprising a heterologous sig gene consisting of the nucleotide sequence of SEQ ID NO: 1. See MPEP 2105.

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## Claim Rejections - 35 U.S.C. § 112, 1st Paragraph

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claim 10 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claimed invention encompass any Coryneform bacterium containing any sigH gene of any nucleotide sequence which is enhanced in activity/function by any modification. The specification, however, only provides the following representative species encompassed by the invention: a recombinant Coryneform bacterium strain DSM5715 transformed with a polynucleotide consisting of the nucleotide sequence of SEQ ID NO: 1. There is no written description of any other genetic modification to any other Coryneform bacterium which results in an enhanced activity of the sigH gene. Given this lack of additional representative species as encompassed by the claims, Applicants have failed to sufficiently describe the claimed invention, in such full, clear, concise, and exact terms that a skilled artisan would recognize Applicants were in possession of the claimed invention.

# Claim Rejections - 35 U.S.C. § 112, 2nd Paragraph

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 10 is vague and indefinite because the meaning of the phrase "sigH gene is enhanced" is not known, the specific nucleotide sequence of the "sigH gene" is not recited in the claim, and it is not known and not recited in the claim as to how the sigH gene is "enhanced" other than overexpressing the sigH gene in a transformed Coryneform bacteria.

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### Conclusion

- 9. No claim is allowed.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian L. Fronda whose telephone number is (703)305-1252. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (703)308-3804. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703)308-0196.

**CLF** 

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